## **RAW SEQUENCE LISTING**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number:	08/910, 449
Source:	TFW16.
Date Processed by STIC:	07/18/2006
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RAW SEQUENCE LISTING
PATENT APPLICATION: US/08/910,449

DATE: 07/18/2006
TIME: 10:52:33

Imput Set : N:\Crf3\RULE60\08910449.RAW
Output Set: N:\CRF4\07172006\H910449.raw

## SEQUENCE LISTING

```
3 (1) GENERAL INFORMATION:
            (i) APPLICANT: Alderson, Mark R.
                            Goodwin, Raymond G.
     6
                            Smith, Craig A.
     7
           (ii) TITLE OF INVENTION: Cytokine Designated 4-1BB Ligand
     9
           (iii) NUMBER OF SEQUENCES: 18
    11
            (iv) CORRESPONDENCE ADDRESS:
    13
                  (A) ADDRESSEE: Kathryn A. Anderson, Immunex Corporation
    14
                 (6) STREET: 51 University Street
    15
                  (C) CITY: Seattle
    16
                  (D) STATE: Washington
    17
                  (E) COUNTRY: US
    18
                  (F) ZIP: 98101
    19
            (v) COMPUTER READABLE FORM:
    21
                  (A) MEDIUM TYPE: Floppy disk
    22
                  (B) COMPUTER: Apple Power Macintosh
    23
                  (C) OPERATING SYSTEM: Apple 7.5.3
    24
                  (D) SOFTWARE: Microsoft Word, Version #6.0.1
    25
            (vi) CURRENT APPLICATION DATA:
     27
                  (A) APPLICATION NUMBER: US/08/910,449
C--> 28
                  (B) FILING DATE: 05-Aug-1997
C--> 29
                  (C) CLASSIFICATION: 435
W--> 39
           (vii) PRIOR APPLICATION DATA:
     32
                  (A) APPLICATION NUMBER: US/08/236,918
     33
                   (B) FILING DATE: 06-May-1994
     34
                   (A) APPLICATION NUMBER: US 08/060,843
     37
                   (B) FILING DATE: 07-May-1993
     38
          (viii) ATTORNEY/AGENT INFORMATION:
     42
                   (A) NAME: Anderson, Kathryn A.
     43
                   (B) REGISTRATION NUMBER: 32,172
     44
                   (C) REFERENCE/DOCKET NUMBER: 2801-B
            (ix) TELECOMMUNICATION INFORMATION:
                   (A) TELEPHONE: (206) 587-0430
                   (B) TELEFAX: (206) 233-0644
     49
     52 (2) INFORMATION FOR SEQ ID NO: 1:
             (i) SEQUENCE CHARACTERISTICS:
                   (A) LENGTH: 1254 base pairs
     55
                   (B) TYPE: nucleic acid
     56
                   (C) STRANDEDNESS: single
     57
                   (D) TOPOLOGY: linear
     58
             (ii) MOLECULE TYPE: cDNA to mRNA
     60
            (iii) HYPOTHETICAL: NO
     62
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RAW SEQUENCE LISTING DATE: 07/18/2006
PATENT APPLICATION: US/08/910,449 TIME: 10:52:33

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	ÄĞCCT	AATA	A GC	ACGG	GCAC	TGG	اللاص	AUA	CGIG	CP3CI	GA C	COAC	.0010		Met			
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85	Ala G	GT A	The C	.CG I	Tra E	oro s	zer z	Agn A	la A	la I	eu I	eu A	Ara A	r cas	Thr G	ly		
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93	Ala A	la T	en F	Pro T	hr A	Asp A	Ala	Ala T	'yr E	ro P	la V	al A	Asn V	Val A	Arg A	\sp		
95	50					55					60					65		
97	CGC (	D DAF	GCC C	GCG I	rgg (	CCG (	CCT (	GCA C	TG F	AAC I	TC T	rgt :	rcc (	CGC (	CAC (	CCA	295	
98	Arg	Glu A	Ala A	Ala T	rp 1	Pro :	Pro 2	Ala I	leu I	Asn E	he (	Cys S	Ser A	Arg I	His I	Pro	•	
99					70					75					80		_	
10	1 AAG	CTC	TAT	GGC	CTA	GTC	GCT	TTG	GTT	TTG	CTG	CTT	CTG	ATC	GCC	GCC	343	
10	2 Lys	Leu	Tyr	Gly	Leu	Val	Ala	Leu	Val	Leu	Leu	Leu	Leu	Ile	Ala	Ala		
10	3			85					90					95				
10	5 TGT	GTT	CCT	ATC	TTC	ACC	CGC	ACC	GAG	CCT	CGG	CCA	GCG	CTC	ACA	ATC	391	
10	6 Cys	Val	Pro	Ile	Phe	Thr	Arg	Thr	Glu	Pro	Arg	Pro	Ala	Leu	Thr	Ile		
10	7		100					105					110				430	
10	9 ACC	ACC	TCG	CCC	AAC	CTG	GGT	ACC	CGA	GAG	AAT	AAT	GCA	GAC	CAG	GTC	439	
11	.0 Thr	Thr	Ser	Pro	Asn	Leu	Gly	Thr	Arg	Glu	Asn	Asn	АТа	Asp	GIII	Val		
11	.1	115					120				- cm	125		C A C	ccc	mem	487	
11	.3 ACC	CCT	GTT	TCC	CAC	ATT	GGC	TGC	CCC	AAC	ACT	ACA	CAA	CAG	Glv	Ser	407	
11	4 Thr	Pro	Val	Ser	His			Cys	Pro	Asn	140	THE	GIII	GIII	GIY	145		
11	.5 130					135			7 7 7	77.7	140	CCA	TCC	יייכ	тсс		535	
11	7 CCT	GTG	TTC	GCC	AAG	CTA	CIG	GCT 77-	AAA	AAC	CAA	ΔIn	Ser	יום.	Cve	Asn		
	8 Pro	Val	Phe	Ala			Leu	Ala	гуя	155	GIII	AIG	Der	пси	160			
11	19 21 ACA				150	<b>C</b> 3 C	1 700	י מאי	CΛΠ	155 GGA	COT	GGG	, AGC	. ጥርል			583	
12	21 ACA 22 Thr	ACT	CIG	AAC	TGG	UAC	. AGC	CAA	Dan	GGA Gl 17	Δla	Glv	Ser	Ser	Tvr	Leu		
		Thr	ьeu		ттр	HIS	o ser	GIII	170	GIY	MIG	O-y	501	175				
12	23 25 TCT	<b>4.5</b> T	aam	165	700	m 20 C	ת תיים ו	מ אם			אאמ	GAG	TTG			GAC	631	
12	25 TCT 26 Ser	CAA	GGT 	CTG.	7~~	TWC	. GEN	י מאמ מי מו	Acn	Ive	Lvs	Glu	Leu	Val	Val	Asp		
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12	30 Ser	222	. GGG	T.AII	ተጥር	. <u>та</u> с	· Val	Phe	Len	Glu	Leu	Lys	Leu	Ser	Pro	Thr		
		195		u	- y -		200					205	5					
13	31	193						-										

RAW SEQUENCE LISTING DATE: 07/18/2006
PATENT APPLICATION: US/08/910,449 TIME: 10:52:33

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133	TTC	ACA	AAC	ACA	GGC	CAC	AAG	GTG	CAG	GGC	TGG	GTC	TCT	CTT	GTT	TTG	727
134	Phe	Thr	Asn	Thr	Gly	His	Lys	Val	Gln	Gly	$\mathtt{Trp}$	Val	Ser	Leu	Val	Leu	
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138	Gln	Ala	Lys	Pro	Gln	Val	Asp	Asp	Phe	Asp	Asn	Leu	Ala	Leu	Thr	Val	
139					230					235					240		202
141	GAA	CTG	TTC	CCT	TGC	TCC	ATG	GAG	AAC	AAG	TTA	GTG	GAC	CGT	TCC	TGG	823
142	Glu	Leu.	Phe	FTO	Cys	ser-	Met	Glu	Asn	Lys	Leu	Val	Asp	Arg	Ser	Trp .	•
1/2				245					250					255			0.53
145	AGT	CAA	CTG	TTG	CTC	CTG	AAG	GCT	GGC	CAC	CGC	CTC	AGT	GTG	GGT	CTG	871
146	Ser	Gln	Leu	Leu	Leu	Leu	Lys	Ala	Gly	His	Arg	Leu	Ser	Val	Gly	Leu.	
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149	AGG	GCT	TAT	CTG	CAT	GGA	GCC	CAG	GAT	GCA	TAC	AGA	GAC	TGG	GAG	CTG	919
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161		275					280					285					067
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154	Ser	Tyr	Pro	Asn	Thr	Thr	Ser	Phe	Gly	Leu	Phe	Leu	Val	Lys	Pro	Asp	
155	290					295					300					305	1019
						GAAC'	TAT	CCTT	CTTG'	TG A	CTCC	TAGT	T GC	TAAG	TCCT		
156	Asn	Pro	$\mathtt{Trp}$	Glu	the state of					· · · · ·		~~=	mas a	mmm	amam	топотт	1079
161	CAA	GCTG	CTA '	TGTT	TATT	GG G	GTCT	GAGC.	A GG	GGTC	CCTT	CCA	TGAC	L.I.I.		TGTCTT	1139
163	TAA	CTGG	ACT	TGGT	ATTT.	AT T	CTGA	GCAT.	A GC	TCAG	ACAA	GAC	TTTA	TAT	AMCA	CACTAG	1199
165	ATA	GCAT'	TAG	TAAA	CTGC	TG G	GCAG	CTGC	T AG.	A'I'AA	AAAA	AAA	777C	TAA	WICH WICH	AAGTTT	1254
167	ATA'	TTTA'	TAT	TAAT	TATA	AA A	ATA	AATG	T GT	TTGT	AAA1	AAA	AAAA	AAA	www	<b></b>	1231
170	(2)	INF	ORMA	TION	FOR	SEQ	ID_	NO:	2:								
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179		(X1	) SE	QUEN	TE D	LOCK	TEIT	. Wal	Glu	Asr	Thr	· Ala	a Ast	Ala	Arc	His	
			GII	. HIS	5		Asp	val	OIG	10	)				19	5	
182	1	7.7.	C1.	Thr	. Car	Cve	Pro	Ser	Asp			Let	ı Leı	Arc	, Asp	Thr	
		Ala	Gry	20		Cyb		, 501	25					30	)		
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DATE: 07/18/2006 RAW SEQUENCE LISTING TIME: 10:52:33 PATENT APPLICATION: US/08/910,449

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208 Ser Pro Val Phe Ala Lys Leu Leu Ala Lys Asn Gln Ala Ser Leu Cys
                                                   150
   211 Asn Thr Thr Leu Asn Trp His Ser Gln Asp Gly Ala Gly Ser Ser Tyr
                                                                                                                           175
                                                                                   170
                                          165
   214 Leu Ser Gln Gly Leu Arg Tyr Glu Glu Asp Lys Lys Glu Leu Val Val
                                                                           185
                                  180
   217 Asp Ser Pro Gly Leu Tyr Tyr Val Phe Leu Glu Leu Lys Leu Ser Pro
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                                                                  200
            195
218
   220 Thr Phe Thr Asn Thr Gly His Lys Val Gln Gly Trp Val Ser Leu Val
                                                                                                   220
                                                           215
             210
    223 Leu Gln Ala Lys Pro Gln Val Asp Asp Phe Asp Asn Leu Ala Leu Thr
                                                                                          235
                                                   230
    226 Val Glu Leu Phe Pro Cys Ser Met Glu Asn Lys Leu Val Asp Arg Ser
                                                                                  250
                                          245
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    229 Trp Ser Gln Leu Leu Leu Lys Ala Gly His Arg Leu Ser Val Gly
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                            260
    232 Leu Arg Ala Tyr Leu His Gly Ala Gln Asp Ala Tyr Arg Asp Trp Glu
                                                                                                          285
                                                                280
             275
    235 Leu Ser Tyr Pro Asn Thr Thr Ser Phe. Gly Leu Phe Leu Val Lys Pro
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                                                                           3001
                                                     295
             ·290°·
    236
    238 Asp Asn Pro Trp Glu
    239 305 . .
     241 (2) INFORMATION FOR SEQ ID NO: 3:
                    (i) SEQUENCE CHARACTERISTICS:
                                (A) LENGTH: 1618 base pairs
     244
                                 (B) TYPE: nucleic acid
     245
                                 (C) STRANDEDNESS: single
     246
                                 (D) TOPOLOGY: linear
     247
                    (ii) MOLECULE TYPE: cDNA to mRNA
     249
                 (iii) HYPOTHETICAL: NO
     251
                   (iv) ANTI-SENSE: NO
     253
                   (vii) IMMEDIATE SOURCE:
     256
                                (B) CLONE: human 4-1BB-L(7A)
     257
                    (ix) FEATURE:
     259
                                 (A) NAME/KEY: CDS
     260
                                 (B) LOCATION: 4..765
     261
                     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
     264
     266 GTC ATG GAA TAC GCC TCT GAC GCT TCA CTG GAC CCC GAA GCC CCG TGG
                                                                                                                                                         48
                    Met Glu Tyr Ala Ser Asp Ala Ser Leu Asp Pro Glu Ala Pro Trp
                                                                                              10
     270 CCT CCC GCG CCC CGC GCT CGC GCC TGC CGC GTA CTG CCT TGG GCC CTG
                                                                                                                                                         96
     271 Pro Pro Ala Pro Arg Ala Arg Ala Cys Arg Val Leu Pro Trp Ala Leu
                                                                                      25
                                              20
     275 Val Ala Gly Leu Leu Leu Leu Leu Leu Leu Ala Ala Cys Ala Val
                                                                               40
                                       35
     278 TTC CTC GCC TGC CCC TGG GCC GTG TCC GGG GCT CGC GCC TCG CCC GGC
                                                                                                                                                       192
      279 Phe Leu Ala Cys Pro Trp Ala Val Ser Gly Ala Arg Ala Ser Pro Gly
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RAW SEQUENCE LISTING DATE: 07/18/2006
PATENT APPLICATION: US/08/910,449 TIME: 10:52:33

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282 TCC GCG GCC AGC CCG AGA CTC CGC GAG GGT CCC GAG CTT TCG CCC GAC	240
283 Ser Ala Ala Ser Pro Arg Leu Arg Glu Gly Pro Glu Leu Ser Pro Asp	
284 65 · 70 75	
286 GAT CCC GCC GGC CTC TTG GAC CTG CGG CAG GGC ATG TTT GCG CAG CTG	288
287 Asp Pro Ala Gly Leu Leu Asp Leu Arg Gln Gly Met Phe Ala Gln Leu	
288 80 85 90	
290 GTG GCC CAA AAT GTT CTG CTG ATC GAT GGG CCC CTG AGC TGG TAC AGT	336
291 Val. Ala Gin Asn Val Leu Leu Ile Asp Gly Pro Leu Ser Tro Tyr Sei	\$ 0 m
291 Val. Ala GII ASII Val. 200 200 105 110	
294 GAC CCA GGC CTG GCA GGC GTG TCC CTG ACG GGG GGC CTG AGC TAC AAA	384
295 Asp Pro Gly Leu Ala Gly Val Ser Leu Thr Gly Gly Leu Ser Tyr Lys	
120	
296 115 120 298 GAG GAC ACG AAG GAG CTG GTG GTG GTG GCC AAG GCT GGA GTC TAC TAT GTC	432
298 GAG GAC ACG ANG GAG CAG CAG CAG CAG GAG GAG GAG GAG GA	
125 140	
300 130 133 133 133 133 133 133 133 133	480
302 THE THE CAA CHA GAG CHG CGG GGG GGG GGG GGG GGG GGG GGG GG	
150	
304 145 150 306 TCC STT TCA CTT GCG CTG CAC CTG CAG CCA CTG CGC TCT GCT GCG	528
306 TCC SITE TCA CIT GCS CIT GLAS Leu His Leu Gln Pro Leu Arg Ser Ala Ala Gly	
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308 160 165 170 310 GCC GCC GCC CTG GCT TTG ACC GTG GAC CTG CCA CCC GCC TCC TCC GAG	576
310 GCC GCC GCC CIG GCT TIG Mee GTO GTO GTO Pro Ala Ser Ser Glu 311 Ala Ala Ala Leu Ala Leu Thr Val Asp Leu Pro Pro Ala Ser Ser Glu	-
400 19E 19U	
312 180 183 183 184 GCT CGG AAC TCG GCC TTC GGT TTC CAG GGC CGC TTG CTG CAC CTG AGT	624
314 GCT CGG AAC ICG GCC IIC GGT IIC GAS GOT DE LEU LEU His Leu Ser 315 Ala Arg Asn Ser Ala Phe Gly Phe Gln Gly Arg Leu Leu His Leu Ser	
200 205	
316 195 200 20G GG GG GG GG GG GG GCA CGC 318 GCC GGC CAG CGC GGC GTC CAT CTT CAC ACT GAG GCC AGG GCA CGC	672
318 GCC GGC CAG CGC CIG GGC GIC CHI GIL GIL GIL GIL GIL ALA ARG ALA AR	
210	
320 210 215 322 CAT GCC TGG CAG CTT ACC CAG GGC GCC ACA GTC TTG GGA CTC TTC CGG	720
322 CAT GCC 1GG CAG CTT ACC CAS GGG GGG THAT OUT LEU Gly Leu Phe Arg	
235	
324 225 230 326 GTG ACC CCC GAA ATC CCA GCC GGA CTC CCT TCA CCG AGG TCG GAA	765
327 Val Thr Pro Glu Ile Pro Ala Gly Leu Pro Ser Pro Arg Ser Glu	
250	
328 240 245 330 AACGCCCAGC CTGGGTGCAG CCCACCTGGA CAGAGTCCGA ATCCTACTCC ATCCTTCATG	825
330 AACGCCCAGC CIGGGIGCAG CCCACCTGCTT TCTCTACCTC AAGGGGCTTG GCAGGGGTCC 332 GAGACCCCTG GTGCTGGGTC CCTGCTGCTT TCTCTACCTC AAGGGGCTTG GCAGGGGTCC	885
332 GAGACCCCIG GIGCIGGGIC CCIGCTCCITC TCACCCACTC CTTCCCCAAG TTGGACCTTG	945
334 CTGCTGCTGA CCTCCCCTTG MCGACCTGAG ATATTATATA TATTATATAT ATATATATAT 336 ATATTTATTC TGAGCCTGAG CTCAGATAAT ATATTATATA TATTATATAT ATATATATAT	1005
336 ATATTTATIC IGAGCCIGAS CICAGNITATI INTEGRAL TOTAL TRANSPORTED TOTAL T	1065
340 GGGGGGTCTT CGACATTGCC GAGGCTGGTC TTGAACTCCT GGACTTAGAC GATCCTCCTG	1125
340 GGGGGGTCTT CGACATTGCC GAGGCTGGTC TTGTTCTATTA ATTCATTGTA CTTATTTGCC 342 CCTCAGCCTC CCAAGCAACT GGGATTCATC CTTTCTATTA ATTCATTGTA CTTATTTGCC	1185
342 CCTCAGCCTC CCAAGCAACT GGGATTCATC CTTTOTTTTTTTTTTTTTTTTTTTTTTTTTTT	1245
344 TATTTGTGTG TATTGAGCAT CIGTAATGTG CCACCATTATG GTAATACGTG AGGAATTTAA 346 GAAACATCTA GAAATAGACT GAAAGAAAAT CTGAGTTATG GTAATACGTG AGGAATTTAA	1305
346 GAAACATCTA GAAATAGACT GAAAGAAAAT CTCACTTTTGG GGCTAGCTTT TTTCTTTCTTT 348 AGACTCATCC CCAGCCTCCA CCTCCTGTGT GATACTTGGG GGCTAGCTTT TTTCTTTCTT	1365
348 AGACTCATCC CCAGCCTCCA CCTCCTGTGT GATACTTGGG GGGATCATCATG 350 TCTTTTTTTT GAGATGGTCT TGTTCTGTCA ACCAGGCTAG AATGCAGCGG TGCAATCATG	1425
350 TCTTTTTTT GAGATGGTC1 IGTTCTGTCA ACCAGGCTAG TMAGGCTCAGCCT 352 AGTCAATGCA GCCTCCAGCC TCGACCTCCC GAGGCTCAGG TGATCCTCCC ATCTCAGCCT	1485
352 AGTCAATGCA GCCTCCAGCC TCGACCTCCC GAGGCTCAGG TGATCCTTTT TAATTTTTTTT 354 CTCGAGTAGC TGGGACCACA GTTGTGTGCC ACCACACTTG GCTAACTTTT TAATTTTTTT	1545
354 CTCGAGTAGC IGGGACCACA GIIGIGIGCC ACGIGNOTIC TOTAL	

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DATE: 07/18/2006

VERIFICATION SUMMARY

PATENT APPLICATION: US/08/910,449

TIME: 10:52:34

Input Set : N:\Crf3\RULE60\08910449.RAW Output Set: N:\CRF4\07172006\H910449.raw

L:28 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
L:29 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]

L:35 M:238 W: Alpha Fields not Ordered, Reordered [(C) CLASSIFICATION:] of (1)(vi) L:39 M:238 W: Alpha Fields not Ordered, Reordered [(C) CLASSIFICATION:] of (1)(vi)